Practice Question Hibernate

Html file

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<form action="Add" method="post">
Enter the ID : <input type="text" name="id">
Enter the Name:<input type="text" name="fname">
<button>ADD</button>
</form>
<a href="list">Display the list</a>
</body>
</html>
```

HibernateUtil file

Addproducts servlet

```
package com;
import java.io.IOException;
import java.io.PrintWriter;
import java.util.List;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.Transaction;
public class AddProducts extends HttpServlet {
     private static final long serialVersionUID = 1L;
//
     public AddProducts() {
//
          super();
     protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
//
     }
      protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
              try {
                    //adding a input product to the database
                     String a=request.getParameter("id");
                     String b=request.getParameter("fname");
                  SessionFactory factory = HibernateUtil.getSessionFactory();
                  Session session = factory.openSession();
                  Transaction tx = session.beginTransaction();
```

Addproducts file

```
package com;
public class Addproduct {
    private long ID;
    private String name;

    public Addproduct() {
    }
    public Addproduct(long id, String name) {
        this.ID = id;
        this.name = name;
    }

    public long getID() {return this.ID; }
    public String getName() { return this.name;}

    public void setID(long id) { this.ID = id;}
    public void setName(String name) { this.name = name;}
}
```

Display products servlet

```
package com;
import java.io.IOException;
import java.io.PrintWriter;
import java.util.List;
import javax.servlet.ServletException;
```

```
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
public class Displayprod extends HttpServlet {
      private static final long serialVersionUID = 1L;
      protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
            try {
                  SessionFactory factory = HibernateUtil.getSessionFactory();
                  Session session = factory.openSession();
                        List<Addproduct> list = session.createQuery("from
Addproduct").list();
                    session.close();
                   PrintWriter out = response.getWriter();
                   out.println("<html><body>");
                   out.println("<b>Product Listing</b><br>");
                   for(Addproduct p: list) {
                           out.println("ID: " + p.getID() + ", Name: " +
p.getName() + "<br>");
               out.println("</body></html>");
           } catch (Exception ex) {
                   throw ex;
      }
```

Addproducts .hgm.xml file

Hibernate.cfg.xml file

```
<!xml version='1.0' encoding='utf-8'?>
```

Output Screenshots

Enter the ID:		Enter the Name:	ADD
Display the lis	t		

Product Listing
ID: 1, Name: laptop
ID: 3, Name: TV
ID: 2, Name: Telephone

ADD Enter the Name: Table Enter the ID: 45

Display the list

Product Listing ID: 1, Name: laptop ID: 3, Name: TV ID: 2, Name: Telephone ID: 45, Name: Table

```
 Addinganewproduct
         > 🔁 Deployment Descriptor: Addinganewproduct
          > A JAX-WS Web Services
         Java Resources
                   > 🕮 src/main/java
                   > Mail Libraries
                 build

√ 

≈ src

                  v 🔑 main
                             🗸 😂 java
                                        > 🔝 com
                                                Addprod.hbm.xml
                                                in hibernate.cfg.xml
                             webapp
                                       > 🗁 META-INF

→ WEB-INF

                                                 🗸 🗁 lib
                                                                   antlr-2.7.7.jar
                                                                   byte-buddy-1.12.9.jar
                                                                   classmate-1.5.1.jar
                                                                   FastInfoset-1.2.15.jar
                                                                   hibernate-commons-annotations-5.1.2.Final.
                                                                   🗟 hibernate-core-5.6.10.Final.jar
                                                                   istack-commons-runtime-3.0.7.jar
                                                                   jandex-2.4.2.Final.jar
                                                                   javax.activation-api-1.2.0.jar
                                                                   javax.persistence-api-2.2.jar
                                                                   jaxb-api-2.3.1.jar
                                                                   jaxb-runtime-2.3.1.jar
                                                                   jboss-logging-3.4.3.Final.jar
                                                                   jboss-transaction-api_1.2_spec-1.1.1.Final.jar
                                                                   mysql-connector-j-8.0.32.jar
                                                                   stax-ex-1.8.jar
                                                                   txw2-2.3.1.jar

    web.xml

    web.xml
                                                index.html
```